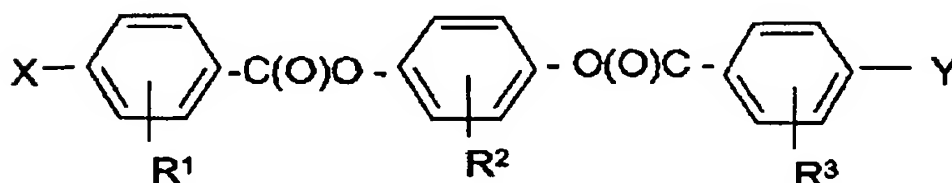


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1.-185. (Canceled).

1 186. (Currently amended) Mesogens having the following formula:



2 wherein

4 X and Y independently are selected from the group consisting of amino groups,
5 polymerizable groups, and combinations thereof, provided that when X is
6 polymerizable group, Y is amino group;

7 R^2 is selected from the group consisting of t-butyl groups, isopropyl groups, and
8 secondary butyl groups; and

9 R^1 and R^3 are selected from the group consisting of hydrogen and a methyl group
10 ~~less bulky than R^2 .~~

1 187. (Previously presented) The mesogens of claim 186 wherein said
2 polymerizable groups have polymerizable unsaturated carbon-carbon bond.

1 188. (Previously presented) The mesogens of claim 186 wherein said
2 polymerizable groups are selected from the group consisting of acryloyloxy alkoxy
3 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon
4 atoms.

1 189. (Previously presented) The mesogens of claim 188 wherein said alkyl
2 moiety consists essentially of from 2 to 12 carbon atoms and CH_2 groups optionally are
3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester
4 groups; provided that two or more carbon atoms separate said oxygen from said ester
5 groups.

1 190. (Previously presented) The mesogens of claim 189 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 191. (Previously presented) The mesogens of claim 189 wherein said alkyl

2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

1 192.-193. (Canceled)

1 194. (Currently amended) The mesogens of claim 186 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y further consists
3 essentially of a spacer group.

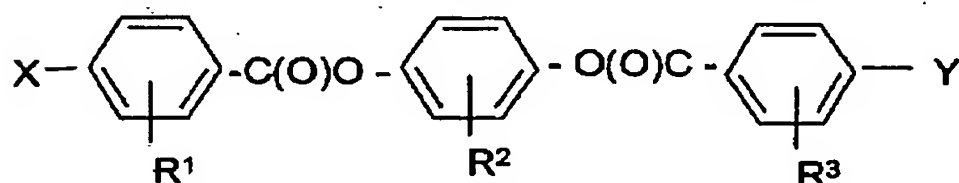
1 195. (Currently amended) The mesogens of claim 187 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y further consists
3 essentially of a spacer group.

1 196. (Currently amended) The mesogens of claim 186 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y is a cinnamoyloxy
3 group.

1 197. (Currently amended) The mesogens of claim 194 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y is a cinnamoyloxy
3 group.

1 198. (Currently amended) The mesogens of claim 195 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y is a cinnamoyloxy
3 group.

1 199. (Currently amended) Mesogens having the following formula:



2 wherein

4 X is a polymerizable group selected from the group consisting of acryloyloxy alkoxy
5 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12
6 carbon atomseomprising polymerizable unsaturated carbon-carbon bond;

7 Y comprisesconsists essentially of an amino group;

8 R² is selected from the group consisting of alkyl groups having from about 1 to 6 carbon
9 atoms and aryl groups; and

10 R¹ and R³ are selected from the group consisting of hydrogen and a methyl groupgroups
11 less-bulky than R².

1 200. (Canceled).

1 201. (Currently amended) The mesogens of claim ~~200~~199 wherein said alkyl
2 moiety consists essentially of from 2 to 12 carbon atoms and CH₂ groups optionally are
3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester
4 groups; provided that two or more carbon atoms separate said oxygen from said ester
5 groups.

1 202. (Previously presented) The mesogens of claim 201 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 203. (Previously presented) The mesogens of claim 201 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

1 204.-205. (Canceled).

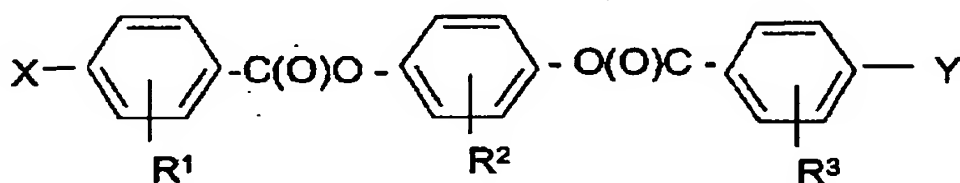
1 206. (Currently amended) The mesogens of claim 199 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y further consists
3 essentially of a spacer group.

1 207. (Currently amended) The mesogens of claim 201 wherein one or more
2 ~~member~~members selected from the group consisting of X and Y further consists
3 essentially of a spacer group.

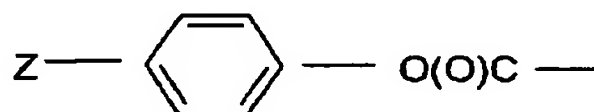
1 208. (Currently amended) The mesogens of claim 204 wherein one or more
2 ~~member~~members selected from the group consisting of X ~~comprises~~ and Y is
3 cinnamoyloxy group.

1 208. (Canceled)

1 209. (Currently amended) Mesogens having the following formula:



2
3 wherein X and Y independently are selected from the group consisting of spacer groups,
4 polymerizable groups, and combinations thereof, wherein one or more
5 ~~member~~members selected from the group consisting of X and Y ~~having~~have the
6 following structure:



8 wherein Z is selected from the group consisting of spacer groups, terminal
9 functionalities, polymerizable groups, and combinations thereof, said spacer
10 groups being selected from the group consisting of H-(CH₂)_n-O- groups,
11 Cl(CH₂)_n-O- groups, Br(CH₂)_n-O- groups, I(CH₂)_n-O-, wherein n is from about 2
12 to about 12 wherein the CH₂ groups independently can be substituted by oxygen,
13 sulfur, or an ester group; provided that at least 2 carbon atoms separate said
14 oxygen or said ester group;

15 R² is selected from the group consisting of alkyl groups having from about 1 to 6 carbon
16 atoms and aryl groups; and

17 R¹ and R³ are selected from the group consisting of hydrogen and a methyl group
18 ~~less bulky than R².~~

1 210. (Previously presented) The mesogens of claim 209 wherein X and Y
2 further consist essentially of functionalities independently selected from the group
3 consisting of hydroxyl groups, amino groups, and sulfhydryl groups.

1 211. (Previously presented) The mesogens of claim 210 wherein n is from
2 about 2 to 9.

1 212. (Previously presented) The mesogens of claim 210 wherein n is from 2 to
2 6.

1 213. (Previously presented) The mesogens of claim 209 wherein said
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon
3 bond.

1 214. (Previously presented) The mesogens of claim 210 wherein said
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon
3 bond.

1 215. (Previously presented) The mesogens of claim 214 wherein said alkyl
2 moiety has from 2 to 9 carbon atoms.

1 216. (Currently amended) The mesogens of claim 214 wherein said alkyl
2 moiety has from ~~from~~ 2 to 6 carbon atoms.

1 217. (Previously presented) The mesogens of claim 209 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 218. (Previously presented) The mesogens of claim 210 wherein R^2 is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 219. (Previously presented) The mesogens of claim 213 wherein R^2 is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 220. (Previously presented) The mesogens of claim 214 wherein R^2 is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 221. (Previously presented) The mesogens of claim 216 wherein R^2 is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 222.-223. (Canceled)

1 224. (Previously presented) The mesogens of claim 220 wherein R and R^3 are
2 selected from the group consisting of hydrogen and methyl group.

1 225. (Previously presented) The mesogens of claim 221 wherein R and R^3 are
2 selected from the group consisting of hydrogen and methyl group.

1 226. (Currently amended) The mesogens of claim 209 wherein one or more
2 ~~membermembers~~ selected from the group consisting of X and Y is cinnamoyloxy group.

1 227. (Currently amended) The mesogens of claim 217 wherein one or more
2 ~~membermembers~~ selected from the group consisting of X and Y is cinnamoyloxy group.

1 228. (Currently amended) The mesogens of claim ~~222221~~ wherein one or
2 more ~~membermembers~~ selected from the group consisting of X and Y is cinnamoyloxy
3 group.